IN THE CLAIMS

- 1-42. (Canceled)
- 43. (Original) A biosensor comprising:
 - a. a nucleic acid enzyme dependent on an ion to produce a product;
 - b. a quencher, and
 - c. a photodetector.
- 44. (Original) The biosensor of claim 43 comprising an array of nucleic acid enzymes.
- 45. (Original) The biosensor of claim 44, wherein the array comprises nucleic acid enzymes together having a range of ion specificities.
 - 46. (Original) The biosensor of claim 43 further comprising a fluorophore.
 - 47. (Original) A biosensor comprising:
 - a. a nucleic acid enzyme dependent on an ion to produce a product;
 - b. a fluorophore; and
 - c. a photodetector.
 - 48. (Original) A composition comprising a nucleic acid enzyme linked to a fluorophore.
 - 49. (Original) A composition comprising a nucleic acid enzyme linked to a quencher.
- 50. (Original) A composition comprising a nucleic acid enzyme, substrate, fluorophore, and quencher.
- 51. (Original) A composition comprising a substrate for a nucleic acid enzyme linked to a quencher.
- 52. (Original) A composition comprising a substrate for a nucleic acid enzyme linked to a fluorophore.